

MARISPORT® 9100

TECHNICAL DATA SHEET

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Polyurethane Binder Resin Solvent free

Product description

The MARISPORT® 9100 is a one component, solvent free, polyurethane elastomeric binder resin. It provides excellent elasticity and high tear resistance properties with minimum shrinkage. Cures by reaction with ground and air humidity, even at very low temperatures.

Advantages

- Simple application.
- Hard-elastic.
- Resistant to water and frost.
- Maintains its mechanical properties over a temperature span of -30°C to +90°C.
- Remains elastic even at low (frost) temperature.
- Full surface adherence.

Uses

The MARISPORT 9100 is a specialized elastomeric resin for binding of recycled rubber or EPDM granulates for use in

- Interior / exterior sports facilities
- Interior / exterior running tracks
- Interior / exterior pedestrian walkways
- Nursery & School Play areas
- Casted rubber-granulate tiles, etc.

Colors

The MARISPORT® 9100 is supplied in brownish transparent.

Technical Data *

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane Resin	
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Elongation at Break	>200%	ASTM D 412
Adhesion to rubber	>1,5 N/mm ²	ASTM D 903
Hardness (Shore A Scale)	65 + 5	ASTM D 2240
Solids Content	100%	CALCULATED
Hydrolysis (5% KOH, 7days cycle)	No significant elastomeric change	Inhouse Lab
Service Temperature	-40°C to +90°C	Inhouse Lab
Tack Free Time	18-24 hours	Conditions: 20°C, 50% RH
Light Pedestrian Traffic Time	24-48 hours	
Final Curing time (ponding test)	7 days	
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils.	

CONSTRUCTION



Application

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.

The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. Possible surface irregularities need to be smoothed. Any loose surface pieces need to be thoroughly removed.

WARNING: Do not wash surface with water!

Priming

Prime surfaces like concrete, cement screed, metal, etc with the MARISEAL® 750 primer (min. 250 – 300 gr/m²). Allow 12-18 hours to cure.

Mixing

Stir MARISPORT® 9100 well before using.

Then add the MARISPORT® 9100 to the correct amount of rubber granulates at a mixing ratio ranging from **1 : 4 to 1 : 5 by weight**, depending on the cornsize of the rubber granulates used. Add 1% of clean water to the mixture in order to increase curing speed.

The mixture of MARISPORT® 9100 / Rubber granulates should be mixed by low speed mechanical stirrer, for about 3-5 min.

ATTENTION: The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.

Application

Poor the entire MARISPORT® 9100 + Rubber granulates mixture, onto the primed and prepared surface and lay it out by flat trowel, until all surface is covered.

After 24-48 hours, and only if the surface is requested to have a smooth, colored finish, apply the MARISPORT 9300 pore filler / putty in one or two layers, depending on the finish desired.

RECOMMENDATION: Use a solvent soaked cloth to clean trowel/squeegee in regular time intervalls, to avoid sticking.

RECOMMENDATION: For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

WARNING: The MARISPORT® 9100 is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our R+D Dept. for more details.

Packaging

MARISPORT® 9100 A+B is supplied in 20 kg pails and 200kg Barrels. Pails/Barrels should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5⁰-30⁰C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

MARISPORT® 9100 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet. **PROFESSIONAL USE ONLY**

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.

* All values represent typical values and are not part of the product specification. Upon UV exposure, the resin might fade and yellow on the surface.